

Claims

1. A paving composition comprising aggregate and asphalt characterized in that:
  - a) a major proportion of the composition by weight is aggregate; and
  - b) a minor proportion of the composition by weight is asphalt.

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2. A paving composition as claimed in claim 1 in which the asphalt is present as a mastic.

3. A paving composition as claimed in claim 2 in which the asphalt mastic comprises additives to provide enhanced stability and drainability.

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4. A paving composition as claimed in claim 1 in which the aggregate comprises particles of a size such that at least 80 percent will be retained on a 2 mm sieve passing 19 or 20 mm sieve sizes, and about 60 to 75 percent will be retained on a 7 mm sieve passing 19 or 20 mm sieve sizes.

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- ~~5. A paving composition as claimed in claims 1 or 4 in which the aggregate is granite, basalt, quartzite, industrial slag, crushed bottles, crushed concrete, or sand and sludge stones from domestic wastes.~~

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6. A paving composition as claimed in claim 3 in which the asphalt mastic comprises additives selected from the group consisting tire powder, latex powder, rock filler, slag filler and cellulose fibre.

7. A paving composition as claimed in claim 6 in which the tire or latex powders are of sizes 30 to 50 microns in a proportion of between 2 and 10 percent by weight of asphalt and cellulose fibre pellets that form the asphalt mastic.

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8. A paving composition as claimed in claim 6 in which the rock or slag fillers are present in a proportion of between 4 and 10 percent by weight of aggregates.

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9. A paving composition as claimed in claim 6 in which the cellulose fibre is selected from the group consisting oil palm fibre, coconut fibre, kenaf fibre, rubber-wood fibre and paper pulp fibre.

5 10. A paving composition as claimed in claim 9 in which the cellulose fibre is mechanically pelletized with light asphalt emulsions or any other suitable materials.

11. A paving composition as claimed in claim 10 in which the proportion of asphalt emulsion to coat the cellulose fibres is between 10 and 40 percent by weight of fibres.

12. A method of producing a paving layer, which comprises applying a composition according to any one of claims 1 to 11 to a substrate and curing the asphalt such that the aggregate in the paving layer is bonded together by cured solid asphalt.

15 13. A paved layer which has been produced by a method according to claim 12.

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